Attorney Docket No. Q77316

OCT 2 4 2006 W

AMENDMENT INDER 35 C.F.R. § 1.114(c)
U.S. Application No. 107654,971

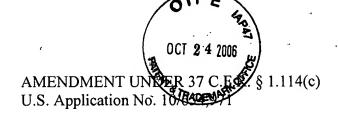
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended): A fluorine-containing resin composition comprising (I) a fluorine-containing prepolymer and (II) a compound containing a rare earth metal ion and/or a rare earth metal element, wherein
- (1) the fluorine-containing prepolymer (I) is a non-crystalline polymer having a fluorine content of not less than 25 % by weight and
- (2) the fluorine-containing prepolymer (I) has contains repeating units having a cure site comprising a carbon-carbon double bond in a side chain of the polymer and/or at an end of a trunk chain of the polymer in an amount of not less than 0.1 mol % based on all structural units constituting the prepolymer (I).
- 2. (original): The fluorine-containing resin composition of Claim 1, wherein the fluorine-containing prepolymer (I) is a polymer having a maximum absorption coefficient of not more than 1 cm⁻¹ in a wavelength range of from 1,290 to 1,320 nm.
- 3. (original): The fluorine-containing resin composition of Claim 1, wherein the fluorine-containing prepolymer (I) is a polymer having a maximum absorption coefficient of not more than 1 cm⁻¹ in a wavelength range of from 1,530 to 1,570 nm.

Attorney Docket No. Q77316



- 4. (original): The fluorine-containing resin composition of Claim 1, wherein the fluorine-containing prepolymer (I) is a polymer having a maximum absorption coefficient of not more than 1 cm⁻¹ in a wavelength range of from 600 to 900 nm.
 - 5. (canceled).
- 6. (currently amended): The fluorine-containing resin composition of Claim 5

 Claim 1, wherein the fluorine-containing prepolymer (I) has a carbon-carbon double bond at an end of the polymer side chain.
- 7. (original): The fluorine-containing resin composition of Claim 1, wherein the fluorine-containing prepolymer (I) has recurring units of a fluorine-containing ethylenic monomer having a cure site.
- 8. (original): The fluorine-containing resin composition of Claim 1, wherein the fluorine-containing prepolymer (I) is a fluorine-containing polymer having a number average molecular weight of from 500 to 1,000,000 and represented by the formula (1):

$$-(M)-(A)-$$

in which the structural unit M is a structural unit derived from a fluorine-containing ethylenic monomer represented by the formula (M):

$$+CX^{1}X^{2} - CX^{3} + (C=0)_{b}(O+_{c}Rf)$$
(M)

wherein X^1 and X^2 are the same or different and each is H or F; X^3 is H, F, CH₃ or CF₃; X^4 and X^5 are the same or different and each is H, F or CF₃; Rf is an organic group in which 1 to 3 of Y^1

(Y¹ is a monovalent organic group having 2 to 10 carbon atoms and an ethylenic carbon-carbon double bond at its end) are bonded to a fluorine-containing alkyl group having 1 to 40 carbon atoms or a fluorine-containing alkyl group having 2 to 100 carbon atoms and ether bond; a is 0 or an integer of from 1 to 3; b and c are the same or different and each is 0 or 1, the structural unit A is a structural unit derived from monomer copolymerizable with the fluorine-containing ethylenic monomer providing the structural unit M, and the structural unit M and the structural unit A are contained in amounts of from 0.1 to 100 % by mole and from 0 to 99.9 % by mole, respectively.

9. (original): The fluorine-containing resin composition of Claim 8, wherein the fluorine-containing prepolymer (I) is the polymer of the formula (1) and the structural unit M is a structural unit M1 derived from a fluorine-containing ethylenic monomer and represented by the formula (M1):

$$+ CX^{1}X^{2} - CX^{3} + (M1)$$

$$+ (CX^{4}X^{5})_{a} + (O)_{c} Rf$$

wherein X^1 and X^2 are the same or different and each is H or F; X^3 is H, F, CH₃ or CF₃; X^4 and X^5 are the same or different and each is H, F or CF₃; Rf is an organic group in which 1 to 3 of Y^1 (Y^1 is a monovalent organic group having 2 to 10 carbon atoms and an ethylenic carbon-carbon double bond at its end) are bonded to a fluorine-containing alkyl group having 1 to 40 carbon atoms or a fluorine-containing alkyl group having 2 to 100 carbon atoms and ether bond; a is 0 or an integer of from 1 to 3; c is 0 or 1.

10. (original): The fluorine-containing resin composition of Claim 8, wherein the fluorine-containing prepolymer (I) is the polymer of the formula (1) and the structural unit M is a structural unit M2 derived from a fluorine-containing ethylenic monomer and represented by the formula (M2):

$$+CH_2 - CF + (M2)$$

$$-CF_2 - O - Rf$$

wherein Rf is an organic group in which 1 to 3 of Y¹ (Y¹ is a monovalent organic group having 2 to 10 carbon atoms and an ethylenic carbon-carbon double bond at its end) are bonded to a fluorine-containing alkyl group having 1 to 40 carbon atoms or a fluorine-containing alkyl group having 2 to 100 carbon atoms and ether bond.

11. (withdrawn): The fluorine-containing resin composition of Claim 8, wherein the fluorine-containing prepolymer (I) is the polymer of the formula (1) and the structural unit M is a structural unit M3 derived from a fluorine-containing ethylenic monomer and represented by the formula (M3):

$$\begin{array}{ccc}
+ CF_2 - CF + & (M3) \\
0 - Rf
\end{array}$$

wherein Rf is an organic group in which 1 to 3 of Y¹ (Y¹ is a monovalent organic group having 2 to 10 carbon atoms and an ethylenic carbon-carbon double bond at its end) are bonded to a fluorine-containing alkyl group having 1 to 40 carbon atoms or a fluorine-containing alkyl group having 2 to 100 carbon atoms and ether bond.

- 12. (withdrawn): The fluorine-containing resin composition of Claim 8, wherein at least one of Y¹ in Rf of said formula (M) is bonded to an end of Rf.
- 13. (withdrawn): The fluorine-containing resin composition of Claim 12, wherein Y¹ in Rf of said formula (M) is:

$$+(O)_{a}+(C=O)_{c}-Y^{2}$$

wherein Y^2 is an alkenyl group or fluorine-containing alkenyl group having 2 to 5 carbon atoms and an ethylenic carbon-carbon double bond at an end thereof; d and e are the same or different and each is 0 or 1.

14. (withdrawn): The fluorine-containing resin composition of Claim 13, wherein Y¹ in Rf of said formula (M) is:

$$-O(C=O)CX^6=CX^7X^8$$

wherein X^6 is H. F. CH₃ or CF₃: X^7 and X^8 are the same or different and each is H or F.

- 15. (withdrawn): A fluorine-containing resin composition which comprises the fluorine-containing prepolymer (I) of Claim 1 and a rare earth organometal complex (II-2).
- 16. (withdrawn): The fluorine-containing resin composition of Claim 1 which contains an active energy curing initiator (III) in addition to the fluorine-containing prepolymer (I) and the compound (II) containing a rare earth metal ion and/or a rare earth metal element.
- 17. (withdrawn): The fluorine-containing resin composition of Claim 16, wherein the fluorine-containing prepolymer (I) is a fluorine-containing prepolymer having an ethylenic

carbon-carbon double bond having radical reactivity and the active energy curing initiator (III) is a photoradical generator (III-1).

- 18. (withdrawn): A fluorine-containing optical amplification material obtained by curing the fluorine-containing prepolymer (I) in the fluorine-containing resin composition of Claim 1.
- 19. (withdrawn): An optical amplifying device having a core portion and a clad portion, wherein the core portion is made of the fluorine-containing optical amplification material of Claim 18.
- 20. (withdrawn): A fluorine-containing light emission material obtained by curing the fluorine-containing prepolymer (I) in the fluorine-containing resin composition of Claim 1.
- 21. (withdrawn): A light emitting device in which a part or the whole of the light emitting device is made of the fluorine-containing light emission material of Claim 20.
- 22. (withdrawn): A light emitting device having a core portion and a clad portion, wherein the core portion is made of the fluorine-containing light emission material of Claim 20.